

**TDMS No.** 99017 - 05  
**Test Type:** CHRONIC  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Diethylamine  
**CAS Number:** 109-89-7

**Date Report Requested:** 01/13/2010  
**Time Report Requested:** 11:20:13  
**First Dose M/F:** 08/25/03 / 08/25/03  
**Lab:** BNW

F3\_R2

**C Number:** C99017  
**Lock Date:** 07/24/2006  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 2.2.0

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## HISTORICAL CONTROL STUDIES

From May 2009 report

### SAME ROUTE

20011-05 -- 1-Bromopropane (INHALATION AIR)  
96011-05 -- Cumene (INHALATION AIR)  
97006-01 -- Methyl isobutyl ketone (INHALATION AIR)  
88006-03 -- alpha-Methylstyrene (INHALATION AIR)  
97008-05 -- Propargyl alcohol (INHALATION AIR)  
93025-07 -- Tetralin (INHALATION AIR)

### ALL ROUTES

99024-07 -- Androstenedione (GAVAGE METHYLCELLULOSE)  
99028-05 -- bis(2-Chloroethoxy)methane (SKIN ETHANOL)  
20011-05 -- 1-Bromopropane (INHALATION AIR)  
99027-03 -- Chromium picolinate monohydrate (ORAL FEED)  
05174-05 -- Cresols (ORAL FEED)  
96011-05 -- Cumene (INHALATION AIR)  
97003-07 -- 1,2-Dibromo-2,4-dicyanobutane (SKIN ETHANOL)  
93020-07 -- Diisopropylcarbodiimide (SKIN ETHANOL)  
88123-05 -- Formamide (GAVAGE WATER)  
20005-05 -- Ginseng (GAVAGE WATER)  
99007-05 -- Goldenseal root powder (ORAL FEED)  
95011-07 -- 5-(Hydroxymethyl)-2-furfural (GAVAGE WATER)  
88105-03 -- Isoeugenol (GAVAGE CORN OIL)  
20007-05 -- Kava kava extract (GAVAGE CORN OIL)  
97006-01 -- Methyl isobutyl ketone (INHALATION AIR)  
91005-07 -- Methylene blue trihydrate (GAVAGE METHYLCELLULOSE)  
92013-05 -- 4-Methylimidazole (ORAL FEED)  
88006-03 -- alpha-Methylstyrene (INHALATION AIR)  
20008-03 -- Milk thistle extract (ORAL FEED)  
99023-03 -- beta-Myrcene (GAVAGE CORN OIL)  
97008-05 -- Propargyl alcohol (INHALATION AIR)

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**HISTORICAL CONTROL STUDIES**

**From May 2009 report**

99020-05 -- Pulegone (GAVAGE CORN OIL)

20114-07 -- Sodium dichromate dihydrate (VI) (ORAL WATER)

93025-07 -- Tetralin (INHALATION AIR)

96019-05 -- Water disinfection byproducts (Bromochloroacetic acid) (ORAL WATER)

96017-05 -- Water disinfection byproducts (Dibromoacetic acid) (ORAL WATER)

96015-05 -- Water disinfection byproducts (Dibromoacetonitrile) (ORAL WATER)

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**FOR ALL DOSES THE TUMOR RATES IN THE FOLLOWING TISSUES/ORGANS ARE BASED ON NUMBER OF TISSUES EXAMINED.  
IN OTHER TISSUES/ORGANS RATES ARE BASED ON THE NUMBER OF ANIMALS NECROPSIED.**

Adrenal Cortex  
Adrenal Medulla  
Clitoral/Preputial Gland  
Islets, Pancreatic  
Liver  
Lung  
Pituitary Gland  
Testes  
Thyroid Gland

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## SUMMARY OF STATISTICALLY SIGNIFICANT ( $P \leq .05$ ) RESULTS IN THE ANALYSIS OF DIETHYLAMINE

### MALE RATS

#### Organ

Adrenal Cortex  
Adrenal Medulla  
Islets, Pancreatic

Skin

Testes  
Zymbal's Gland  
All Organs

#### Morphology

Adenoma  
Pheochromocytoma Complex  
Adenoma  
Carcinoma or Adenoma  
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma  
Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma  
Adenoma  
Carcinoma  
Histiocytic Sarcoma  
Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated  
Mesothelioma: Benign, Malignant, NOS  
Mesothelioma: Malignant  
Benign Tumors

### FEMALE RATS

#### Organ

Adrenal Medulla  
Mammary Gland

Pituitary Gland: Pars Distalis or Unspecified Site

All Organs

#### Morphology

Pheochromocytoma: Benign, Complex, Malignant, NOS  
Carcinoma  
Carcinoma or Adenoma  
Adenoma  
Carcinoma or Adenoma  
Malignant Tumors

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STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Adrenal Cortex</b>				
<b>Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/50 (2%)	6/50 (12%)	3/50 (6%)	3/50 (6%)
POLY-3 RATE (b)	1/42.66	6/42.21	3/44.06	3/45.16
POLY-3 PERCENT (g)	2.3%	14.2%	6.8%	6.6%
TERMINAL (d)	1/28 (4%)	3/21 (14%)	2/25 (8%)	3/36 (8%)
FIRST INCIDENCE	729 (T)	600	687	729 (T)
HC TUMORS SAME ROUTE	1/299 (0%)			
HC TUMORS ALL ROUTES	14/1347 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.525	P=0.053	P=0.317	P=0.326
POLY 1.5	P=0.503	P=0.054	P=0.311	P=0.315
POLY 6	P=0.560	P=0.051	P=0.324	P=0.343
COCH-ARM / FISHERS	P=0.482	P=0.056	P=0.309	P=0.309
MAX-ISO-POLY-3	P=0.188	P=0.023*	P=0.166	P=0.175
HISTCONT SAME RTE	P=0.105	P=0.020*	P=0.027*	P=0.026*
HISTCONT ALL RTEs	P=0.006**	P=0.002**	P=0.044*	P=0.044*

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Adrenal Medulla</b>				
<b>Pheochromocytoma Benign</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	7/50 (14%)	6/50 (12%)	9/50 (18%)	9/49 (18%)
POLY-3 RATE (b)	7/42.95	6/42.04	9/44.30	9/45.25
POLY-3 PERCENT (g)	16.3%	14.3%	20.3%	19.9%
TERMINAL (d)	6/28 (21%)	3/21 (14%)	7/25 (28%)	7/36 (19%)
FIRST INCIDENCE	651	674	656	703
HC TUMORS SAME ROUTE	50/299 (17%)			
HC TUMORS ALL ROUTES	190/1345 (14%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.316	P=0.517N	P=0.418	P=0.436
POLY 1.5	P=0.285	P=0.510N	P=0.406	P=0.409
POLY 6	P=0.363	P=0.525N	P=0.435	P=0.477
COCH-ARM / FISHERS	P=0.249	P=0.500N	P=0.393	P=0.376
MAX-ISO-POLY-3	P=0.453	P=0.397N	P=0.316	P=0.335
HISTCONT SAME RTE	P=0.545	P=1.000	P=0.412	P=0.434
HISTCONT ALL RTEs	P=0.362	P=1.000	P=0.337	P=0.355

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Adrenal Medulla</b>				
<b>Pheochromocytoma Complex</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	2/43.22	0/41.57	0/43.89	0/45.09
POLY-3 PERCENT (g)	4.6%	0%	0%	0%
TERMINAL (d)	1/28 (4%)	0/21 (0%)	0/25 (0%)	0/36 (0%)
FIRST INCIDENCE	557	---	---	---
HC TUMORS SAME ROUTE	1/299 (0%)			
HC TUMORS ALL ROUTES	6/1345 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.113N	P=0.246N	P=0.233N	P=0.228N
POLY 1.5	P=0.114N	P=0.242N	P=0.235N	P=0.234N
POLY 6	P=0.111N	P=0.251N	P=0.231N	P=0.219N
COCH-ARM / FISHERS	P=0.117N	P=0.247N	P=0.247N	P=0.253N
MAX-ISO-POLY-3	P=0.033N*	P=0.084N	P=0.076N	P=0.077N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)



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STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Adrenal Medulla</b>				
<b>Pheochromocytoma Malignant</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)	1/49 (2%)
POLY-3 RATE (b)	1/42.66	0/41.57	2/43.89	1/45.09
POLY-3 PERCENT (g)	2.3%	0%	4.6%	2.2%
TERMINAL (d)	1/28 (4%)	0/21 (0%)	2/25 (8%)	1/36 (3%)
FIRST INCIDENCE	729 (T)	---	729 (T)	729 (T)
HC TUMORS SAME ROUTE	10/299 (3%)			
HC TUMORS ALL ROUTES	26/1345 (2%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.533	P=0.505N	P=0.510	P=0.748N
POLY 1.5	P=0.515	P=0.503N	P=0.505	P=0.756N
POLY 6	P=0.559	P=0.508N	P=0.516	P=0.737N
COCH-ARM / FISHERS	P=0.493	P=0.500N	P=0.500	P=0.747
MAX-ISO-POLY-3	P=0.409	P=0.165N	P=0.291	P=0.484N
HISTCONT SAME RTE	P=0.494	(e)	P=0.377	P=1.000
HISTCONT ALL RTEs	P=0.477	(e)	P=0.364	P=1.000

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Adrenal Medulla</b>				
<b>Pheochromocytoma: Benign, Complex, Malignant, NOS</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	10/50 (20%)	6/50 (12%)	11/50 (22%)	10/49 (20%)
POLY-3 RATE (b)	10/43.50	6/42.04	11/44.30	10/45.25
POLY-3 PERCENT (g)	23%	14.3%	24.8%	22.1%
TERMINAL (d)	8/28 (29%)	3/21 (14%)	9/25 (36%)	8/36 (22%)
FIRST INCIDENCE	557	674	656	703
HC TUMORS SAME ROUTE	58/299 (19%)			
HC TUMORS ALL ROUTES	217/1345 (16%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.447	P=0.223N	P=0.519	P=0.561N
POLY 1.5	P=0.412	P=0.217N	P=0.509	P=0.587N
POLY 6	P=0.500	P=0.232N	P=0.534	P=0.522N
COCH-ARM / FISHERS	P=0.370	P=0.207N	P=0.500	P=0.579
MAX-ISO-POLY-3	P=0.471	P=0.153N	P=0.418	P=0.460N
HISTCONT SAME RTE	P=0.567	P=1.000	P=0.436	P=1.000
HISTCONT ALL RTEs	P=0.388	P=1.000	P=0.259	P=0.397

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Clitoral/Preputial Gland Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/42.66	1/41.57	2/44.48	0/45.16
POLY-3 PERCENT (g)	0%	2.4%	4.5%	0%
TERMINAL (d)	0/28 (0%)	1/21 (5%)	0/25 (0%)	0/36 (0%)
FIRST INCIDENCE	---	729 (T)	624	---
HC TUMORS SAME ROUTE	7/299 (2%)			
HC TUMORS ALL ROUTES	53/1346 (4%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.591N	P=0.495	P=0.246	(e)
POLY 1.5	P=0.604N	P=0.497	P=0.242	(e)
POLY 6	P=0.571N	P=0.492	P=0.253	(e)
COCH-ARM / FISHERS	P=0.616N	P=0.500	P=0.247	(e)
MAX-ISO-POLY-3	P=0.334N	P=0.158	P=0.085	(e)
HISTCONT SAME RTE	(h)	(h)	(h)	(e)
HISTCONT ALL RTEs	(h)	(h)	(h)	(e)

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Clitoral/Preputial Gland Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/50 (2%)	2/50 (4%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/42.74	2/42.09	2/44.48	0/45.16
POLY-3 PERCENT (g)	2.3%	4.8%	4.5%	0%
TERMINAL (d)	0/28 (0%)	1/21 (5%)	0/25 (0%)	0/36 (0%)
FIRST INCIDENCE	710	571	624	---
HC TUMORS SAME ROUTE	12/299 (4%)			
HC TUMORS ALL ROUTES	70/1346 (5%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.274N	P=0.495	P=0.514	P=0.489N
POLY 1.5	P=0.285N	P=0.497	P=0.507	P=0.495N
POLY 6	P=0.257N	P=0.491	P=0.523	P=0.480N
COCH-ARM / FISHERS	P=0.296N	P=0.500	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.234N	P=0.277	P=0.296	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Intestine Small: Site Unspecified Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.66	2/41.57	0/43.89	0/45.16
POLY-3 PERCENT (g)	0%	4.8%	0%	0%
TERMINAL (d)	0/28 (0%)	2/21 (10%)	0/25 (0%)	0/36 (0%)
FIRST INCIDENCE	---	729 (T)	---	---
HC TUMORS SAME ROUTE	0/299 (0%)			
HC TUMORS ALL ROUTES	0/1348 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.396N	P=0.231	(e)	(e)
POLY 1.5	P=0.399N	P=0.234	(e)	(e)
POLY 6	P=0.390N	P=0.227	(e)	(e)
COCH-ARM / FISHERS	P=0.403N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.246N	P=0.075	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTEs	(h)	(h)	(e)	(e)

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Islets, Pancreatic Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	6/50 (12%)	8/50 (16%)	7/50 (14%)	2/50 (4%)
POLY-3 RATE (b)	6/42.66	8/42.84	7/44.01	2/45.16
POLY-3 PERCENT (g)	14.1%	18.7%	15.9%	4.4%
TERMINAL (d)	6/28 (21%)	2/21 (10%)	5/25 (20%)	2/36 (6%)
FIRST INCIDENCE	729 (T)	646	714	729 (T)
HC TUMORS SAME ROUTE	14/299 (5%)			
HC TUMORS ALL ROUTES	84/1344 (6%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.061N	P=0.388	P=0.524	P=0.114N
POLY 1.5	P=0.071N	P=0.386	P=0.513	P=0.124N
POLY 6	P=0.048N*	P=0.397	P=0.541	P=0.100N
COCH-ARM / FISHERS	P=0.083N	P=0.387	P=0.500	P=0.134N
MAX-ISO-POLY-3	P=0.081N	P=0.283	P=0.405	P=0.062N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Islets, Pancreatic Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/50 (2%)	3/50 (6%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	1/42.66	3/41.87	2/43.91	1/45.16
POLY-3 PERCENT (g)	2.3%	7.2%	4.6%	2.2%
TERMINAL (d)	1/28 (4%)	1/21 (5%)	1/25 (4%)	1/36 (3%)
FIRST INCIDENCE	729 (T)	677	724	729 (T)
HC TUMORS SAME ROUTE	16/299 (5%)			
HC TUMORS ALL ROUTES	28/1344 (2%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.445N	P=0.298	P=0.510	P=0.748N
POLY 1.5	P=0.460N	P=0.301	P=0.505	P=0.755N
POLY 6	P=0.423N	P=0.294	P=0.517	P=0.737N
COCH-ARM / FISHERS	P=0.473N	P=0.309	P=0.500	P=0.753N
MAX-ISO-POLY-3	P=0.449N	P=0.150	P=0.292	P=0.484N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Islets, Pancreatic Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	7/50 (14%)	11/50 (22%)	9/50 (18%)	3/50 (6%)
POLY-3 RATE (b)	7/42.66	11/43.15	9/44.03	3/45.16
POLY-3 PERCENT (g)	16.4%	25.5%	20.4%	6.6%
TERMINAL (d)	7/28 (25%)	3/21 (14%)	6/25 (24%)	3/36 (8%)
FIRST INCIDENCE	729 (T)	646	714	729 (T)
HC TUMORS SAME ROUTE	30/299 (10%)			
HC TUMORS ALL ROUTES	112/1344 (8%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.055N	P=0.219	P=0.418	P=0.134N
POLY 1.5	P=0.066N	P=0.216	P=0.406	P=0.146N
POLY 6	P=0.040N*	P=0.230	P=0.436	P=0.116N
COCH-ARM / FISHERS	P=0.079N	P=0.218	P=0.393	P=0.159N
MAX-ISO-POLY-3	P=0.061N	P=0.150	P=0.317	P=0.080N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)



TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Liver</b>				
<b>Hepatocellular Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/42.66	0/41.57	2/43.89	0/45.16
POLY-3 PERCENT (g)	0%	0%	4.6%	0%
TERMINAL (d)	0/28 (0%)	0/21 (0%)	2/25 (8%)	0/36 (0%)
FIRST INCIDENCE	---	---	729 (T)	---
HC TUMORS SAME ROUTE	2/299 (1%)			
HC TUMORS ALL ROUTES	16/1348 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.629	(e)	P=0.243	(e)
POLY 1.5	P=0.612	(e)	P=0.241	(e)
POLY 6	P=0.657	(e)	P=0.247	(e)
COCH-ARM / FISHERS	P=0.594	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.268	(e)	P=0.082	(e)
HISTCONT SAME RTE	P=0.322	(e)	P=0.067	(e)
HISTCONT ALL RTEs	P=0.310	(e)	P=0.093	(e)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Lung</b>				
<b>Alveolar/Bronchiolar Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/42.66	1/41.57	1/44.06	2/45.16
POLY-3 PERCENT (g)	2.3%	2.4%	2.3%	4.4%
TERMINAL (d)	1/28 (4%)	1/21 (5%)	0/25 (0%)	2/36 (6%)
FIRST INCIDENCE	729 (T)	729 (T)	687	729 (T)
HC TUMORS SAME ROUTE	3/299 (1%)			
HC TUMORS ALL ROUTES	13/1348 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.375	P=0.755	P=0.754N	P=0.520
POLY 1.5	P=0.363	P=0.757	P=0.757N	P=0.509
POLY 6	P=0.395	P=0.752	P=0.749N	P=0.536
COCH-ARM / FISHERS	P=0.351	P=0.753N	P=0.753N	P=0.500
MAX-ISO-POLY-3	P=0.457	P=0.492	P=0.490N	P=0.302
HISTCONT SAME RTE	P=0.072	P=0.322	P=0.338	P=0.080
HISTCONT ALL RTEs	P=0.013*	P=0.283	P=0.298	P=0.033*

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Lung</b>				
<b>Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/50 (2%)	2/50 (4%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	1/42.66	2/41.78	1/44.06	2/45.16
POLY-3 PERCENT (g)	2.3%	4.8%	2.3%	4.4%
TERMINAL (d)	1/28 (4%)	1/21 (5%)	0/25 (0%)	2/36 (6%)
FIRST INCIDENCE	729 (T)	674	687	729 (T)
HC TUMORS SAME ROUTE	7/299 (2%)			
HC TUMORS ALL ROUTES	44/1348 (3%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.471	P=0.493	P=0.754N	P=0.520
POLY 1.5	P=0.458	P=0.495	P=0.757N	P=0.509
POLY 6	P=0.493	P=0.489	P=0.749N	P=0.536
COCH-ARM / FISHERS	P=0.445	P=0.500	P=0.753N	P=0.500
MAX-ISO-POLY-3	P=0.483	P=0.276	P=0.490N	P=0.302
HISTCONT SAME RTE	P=0.563	P=0.357	P=1.000	P=0.390
HISTCONT ALL RTEs	P=0.564	P=0.344	P=1.000	P=0.378

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Mammary Gland Carcinoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.66	1/41.57	0/43.89	0/45.16
POLY-3 PERCENT (g)	0%	2.4%	0%	0%
TERMINAL (d)	0/28 (0%)	1/21 (5%)	0/25 (0%)	0/36 (0%)
FIRST INCIDENCE	---	729 (T)	---	---
HC TUMORS SAME ROUTE	4/299 (1%)			
HC TUMORS ALL ROUTES	7/1348 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.565N	P=0.495	(e)	(e)
POLY 1.5	P=0.565N	P=0.497	(e)	(e)
POLY 6	P=0.564N	P=0.492	(e)	(e)
COCH-ARM / FISHERS	P=0.566N	P=0.500	(e)	(e)
MAX-ISO-POLY-3	P=0.383N	P=0.158	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTEs	(h)	(h)	(e)	(e)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Mammary Gland Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.66	2/41.66	0/43.89	0/45.16
POLY-3 PERCENT (g)	0%	4.8%	0%	0%
TERMINAL (d)	0/28 (0%)	1/21 (5%)	0/25 (0%)	0/36 (0%)
FIRST INCIDENCE	---	705	---	---
HC TUMORS SAME ROUTE	6/299 (2%)			
HC TUMORS ALL ROUTES	11/1348 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.395N	P=0.232	(e)	(e)
POLY 1.5	P=0.399N	P=0.234	(e)	(e)
POLY 6	P=0.389N	P=0.228	(e)	(e)
COCH-ARM / FISHERS	P=0.403N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.246N	P=0.076	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTEs	(h)	(h)	(e)	(e)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Mammary Gland Fibroadenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	2/50 (4%)	2/50 (4%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	2/42.66	2/41.64	3/43.89	1/45.16
POLY-3 PERCENT (g)	4.7%	4.8%	6.8%	2.2%
TERMINAL (d)	2/28 (7%)	1/21 (5%)	3/25 (12%)	1/36 (3%)
FIRST INCIDENCE	729 (T)	710	729 (T)	729 (T)
HC TUMORS SAME ROUTE	7/299 (2%)			
HC TUMORS ALL ROUTES	46/1348 (3%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.372N	P=0.686	P=0.513	P=0.480N
POLY 1.5	P=0.389N	P=0.689	P=0.507	P=0.491N
POLY 6	P=0.347N	P=0.681	P=0.521	P=0.463N
COCH-ARM / FISHERS	P=0.404N	P=0.691N	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.389N	P=0.489	P=0.337	P=0.269N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Mammary Gland</b>				
<b>Fibroma, Fibroadenoma or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	2/50 (4%)	3/50 (6%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	2/42.66	3/41.74	3/43.89	1/45.16
POLY-3 PERCENT (g)	4.7%	7.2%	6.8%	2.2%
TERMINAL (d)	2/28 (7%)	1/21 (5%)	3/25 (12%)	1/36 (3%)
FIRST INCIDENCE	729 (T)	705	729 (T)	729 (T)
HC TUMORS SAME ROUTE	9/299 (3%)			
HC TUMORS ALL ROUTES	52/1348 (4%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.312N	P=0.490	P=0.513	P=0.480N
POLY 1.5	P=0.328N	P=0.494	P=0.507	P=0.491N
POLY 6	P=0.288N	P=0.485	P=0.521	P=0.463N
COCH-ARM / FISHERS	P=0.343N	P=0.500	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.330N	P=0.316	P=0.337	P=0.269N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Mammary Gland</b>				
<b>Fibroma, Fibroadenoma, Carcinoma, or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	2/50 (4%)	4/50 (8%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	2/42.66	4/41.74	3/43.89	1/45.16
POLY-3 PERCENT (g)	4.7%	9.6%	6.8%	2.2%
TERMINAL (d)	2/28 (7%)	2/21 (10%)	3/25 (12%)	1/36 (3%)
FIRST INCIDENCE	729 (T)	705	729 (T)	729 (T)
HC TUMORS SAME ROUTE	13/299 (4%)			
HC TUMORS ALL ROUTES	58/1348 (4%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.261N	P=0.326	P=0.513	P=0.480N
POLY 1.5	P=0.277N	P=0.331	P=0.507	P=0.491N
POLY 6	P=0.237N	P=0.320	P=0.521	P=0.463N
COCH-ARM / FISHERS	P=0.291N	P=0.339	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.271N	P=0.194	P=0.337	P=0.269N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)



TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Pituitary Gland: Pars Distalis or Unspecified Site Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	31/50 (62%)	32/48 (67%)	31/50 (62%)	26/50 (52%)
POLY-3 RATE (b)	31/46.10	32/44.63	31/46.57	26/46.76
POLY-3 PERCENT (g)	67.2%	71.7%	66.6%	55.6%
TERMINAL (d)	17/28 (61%)	14/20 (70%)	17/25 (68%)	20/36 (56%)
FIRST INCIDENCE	557	455	453	562
HC TUMORS SAME ROUTE	214/298 (72%)			
HC TUMORS ALL ROUTES	610/1343 (45%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.083N	P=0.404	P=0.562N	P=0.168N
POLY 1.5	P=0.102N	P=0.399	P=0.567N	P=0.189N
POLY 6	P=0.064N	P=0.406	P=0.573N	P=0.144N
COCH-ARM / FISHERS	P=0.121N	P=0.393	P=0.582N	P=0.210N
MAX-ISO-POLY-3	P=0.118N	P=0.317	P=0.470N	P=0.120N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Pituitary Gland: Pars Distalis or Unspecified Site Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	0/48 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.66	0/39.64	0/43.89	0/45.16
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/28 (0%)	0/20 (0%)	0/25 (0%)	0/36 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	1/298 (0%)			
HC TUMORS ALL ROUTES	6/1343 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Pituitary Gland: Pars Distalis or Unspecified Site Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	31/50 (62%)	32/48 (67%)	31/50 (62%)	26/50 (52%)
POLY-3 RATE (b)	31/46.10	32/44.63	31/46.57	26/46.76
POLY-3 PERCENT (g)	67.2%	71.7%	66.6%	55.6%
TERMINAL (d)	17/28 (61%)	14/20 (70%)	17/25 (68%)	20/36 (56%)
FIRST INCIDENCE	557	455	453	562
HC TUMORS SAME ROUTE	215/298 (72%)			
HC TUMORS ALL ROUTES	616/1343 (46%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.083N	P=0.404	P=0.562N	P=0.168N
POLY 1.5	P=0.102N	P=0.399	P=0.567N	P=0.189N
POLY 6	P=0.064N	P=0.406	P=0.573N	P=0.144N
COCH-ARM / FISHERS	P=0.121N	P=0.393	P=0.582N	P=0.210N
MAX-ISO-POLY-3	P=0.118N	P=0.317	P=0.470N	P=0.120N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Skin</b>				
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	3/50 (6%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	1/42.92	3/42.01	3/44.42	1/45.16
POLY-3 PERCENT (g)	2.3%	7.1%	6.8%	2.2%
TERMINAL (d)	0/28 (0%)	2/21 (10%)	2/25 (8%)	1/36 (3%)
FIRST INCIDENCE	660	600	569	729 (T)
HC TUMORS SAME ROUTE	18/299 (6%)			
HC TUMORS ALL ROUTES	115/1348 (9%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.469N	P=0.297	P=0.317	P=0.749N
POLY 1.5	P=0.485N	P=0.300	P=0.312	P=0.755N
POLY 6	P=0.444N	P=0.291	P=0.324	P=0.740N
COCH-ARM / FISHERS	P=0.499N	P=0.309	P=0.309	P=0.753N
MAX-ISO-POLY-3	P=0.391N	P=0.150	P=0.167	P=0.485N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Skin</b>				
<b>Fibroma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	4/50 (8%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/42.66	4/42.26	2/43.96	0/45.16
POLY-3 PERCENT (g)	2.3%	9.5%	4.6%	0%
TERMINAL (d)	1/28 (4%)	2/21 (10%)	1/25 (4%)	0/36 (0%)
FIRST INCIDENCE	729 (T)	600	712	---
HC TUMORS SAME ROUTE	20/299 (7%)			
HC TUMORS ALL ROUTES	124/1348 (9%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.176N	P=0.175	P=0.510	P=0.489N
POLY 1.5	P=0.187N	P=0.176	P=0.505	P=0.495N
POLY 6	P=0.159N	P=0.173	P=0.517	P=0.479N
COCH-ARM / FISHERS	P=0.198N	P=0.181	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.133N	P=0.082	P=0.292	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Skin</b>				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	2/50 (4%)	8/50 (16%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	2/42.66	8/42.77	2/43.96	0/45.16
POLY-3 PERCENT (g)	4.7%	18.7%	4.6%	0%
TERMINAL (d)	2/28 (7%)	3/21 (14%)	1/25 (4%)	0/36 (0%)
FIRST INCIDENCE	729 (T)	600	712	---
HC TUMORS SAME ROUTE	26/299 (9%)			
HC TUMORS ALL ROUTES	152/1348 (11%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.039N*	P=0.044*	P=0.683N	P=0.225N
POLY 1.5	P=0.044N*	P=0.044*	P=0.688N	P=0.231N
POLY 6	P=0.032N*	P=0.044*	P=0.677N	P=0.214N
COCH-ARM / FISHERS	P=0.053N	P=0.046*	P=0.691N	P=0.247N
MAX-ISO-POLY-3	P=0.022N*	P=0.020*	P=0.487N	P=0.076N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Skin</b>				
Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	4/50 (8%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/42.66	4/42.08	0/43.89	0/45.16
POLY-3 PERCENT (g)	2.3%	9.5%	0%	0%
TERMINAL (d)	1/28 (4%)	1/21 (5%)	0/25 (0%)	0/36 (0%)
FIRST INCIDENCE	729 (T)	635	---	---
HC TUMORS SAME ROUTE	6/299 (2%)			
HC TUMORS ALL ROUTES	29/1348 (2%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.112N	P=0.173	P=0.494N	P=0.489N
POLY 1.5	P=0.117N	P=0.176	P=0.497N	P=0.495N
POLY 6	P=0.105N	P=0.171	P=0.491N	P=0.479N
COCH-ARM / FISHERS	P=0.124N	P=0.181	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.079N	P=0.082	P=0.158N	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Skin</b>				
<b>Keratoacanthoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/42.66	2/41.57	2/43.89	1/45.16
POLY-3 PERCENT (g)	0%	4.8%	4.6%	2.2%
TERMINAL (d)	0/28 (0%)	2/21 (10%)	2/25 (8%)	1/36 (3%)
FIRST INCIDENCE	---	729 (T)	729 (T)	729 (T)
HC TUMORS SAME ROUTE	10/299 (3%)			
HC TUMORS ALL ROUTES	66/1348 (5%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.503	P=0.231	P=0.243	P=0.511
POLY 1.5	P=0.486	P=0.234	P=0.241	P=0.505
POLY 6	P=0.531	P=0.227	P=0.247	P=0.521
COCH-ARM / FISHERS	P=0.470	P=0.247	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.238	P=0.075	P=0.082	P=0.173
HISTCONT SAME RTE	P=0.287	P=0.091	P=0.099	P=0.217
HISTCONT ALL RTEs	P=0.275	P=0.086	P=0.093	P=0.206



TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Skin</b>				
<b>Sarcoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/42.66	2/41.98	0/43.89	0/45.16
POLY-3 PERCENT (g)	0%	4.8%	0%	0%
TERMINAL (d)	0/28 (0%)	0/21 (0%)	0/25 (0%)	0/36 (0%)
FIRST INCIDENCE	---	635	---	---
HC TUMORS SAME ROUTE	0/299 (0%)			
HC TUMORS ALL ROUTES	7/1348 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.394N	P=0.233	(e)	(e)
POLY 1.5	P=0.399N	P=0.235	(e)	(e)
POLY 6	P=0.387N	P=0.231	(e)	(e)
COCH-ARM / FISHERS	P=0.403N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.248N	P=0.076	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTEs	(h)	(h)	(e)	(e)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Skin</b>				
<b>Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	0/42.66	2/41.57	3/44.42	1/45.16
POLY-3 PERCENT (g)	0%	4.8%	6.8%	2.2%
TERMINAL (d)	0/28 (0%)	2/21 (10%)	2/25 (8%)	1/36 (3%)
FIRST INCIDENCE	---	729 (T)	569	729 (T)
HC TUMORS SAME ROUTE	11/299 (4%)			
HC TUMORS ALL ROUTES	89/1348 (7%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.484	P=0.231	P=0.126	P=0.511
POLY 1.5	P=0.463	P=0.234	P=0.123	P=0.505
POLY 6	P=0.517	P=0.227	P=0.130	P=0.521
COCH-ARM / FISHERS	P=0.445	P=0.247	P=0.121	P=0.500
MAX-ISO-POLY-3	P=0.201	P=0.075	P=0.044*	P=0.173
HISTCONT SAME RTE	P=0.242	P=0.091	P=0.050*	P=0.217
HISTCONT ALL RTEs	P=0.232	P=0.086	P=0.047*	P=0.206

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Testes</b>				
<b>Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	36/50 (72%)	37/50 (74%)	39/50 (78%)	43/50 (86%)
POLY-3 RATE (b)	36/45.81	37/45.93	39/47.71	43/47.41
POLY-3 PERCENT (g)	78.6%	80.6%	81.7%	90.7%
TERMINAL (d)	27/28 (96%)	17/21 (81%)	21/25 (84%)	34/36 (94%)
FIRST INCIDENCE	549	478	569	611
HC TUMORS SAME ROUTE	212/299 (71%)			
HC TUMORS ALL ROUTES	1124/1348 (83%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.051	P=0.510	P=0.447	P=0.067
POLY 1.5	P=0.041*	P=0.495	P=0.378	P=0.058
POLY 6	P=0.084	P=0.562	P=0.577	P=0.108
COCH-ARM / FISHERS	P=0.046*	P=0.500	P=0.322	P=0.070
MAX-ISO-POLY-3	P=0.075	P=0.397	P=0.343	P=0.037*
HISTCONT SAME RTE	P=0.052	P=0.463	P=0.389	P=0.040*
HISTCONT ALL RTEs	P=0.083	P=0.500	P=0.428	P=0.038*

TDMS No. 99017 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Diethylamine  
 CAS Number: 109-89-7

Date Report Requested: 01/13/2010  
 Time Report Requested: 11:20:13  
 First Dose M/F: 08/25/03 / 08/25/03  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Thyroid Gland: C-Cell Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	7/50 (14%)	5/50 (10%)	3/50 (6%)	9/50 (18%)
POLY-3 RATE (b)	7/43.64	5/42.46	3/44.37	9/45.78
POLY-3 PERCENT (g)	16%	11.8%	6.8%	19.7%
TERMINAL (d)	3/28 (11%)	2/21 (10%)	1/25 (4%)	6/36 (17%)
FIRST INCIDENCE	621	512	596	634
HC TUMORS SAME ROUTE	21/298 (7%)			
HC TUMORS ALL ROUTES	168/1341 (13%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.309	P=0.398N	P=0.149N	P=0.432
POLY 1.5	P=0.293	P=0.390N	P=0.153N	P=0.411
POLY 6	P=0.338	P=0.412N	P=0.145N	P=0.467
COCH-ARM / FISHERS	P=0.278	P=0.380N	P=0.159N	P=0.393
MAX-ISO-POLY-3	P=0.214	P=0.287N	P=0.086N	P=0.331
HISTCONT SAME RTE	P=0.072	P=0.371	P=1.000	P=0.073
HISTCONT ALL RTEs	P=0.244	P=1.000	P=1.000	P=0.346

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Thyroid Gland: C-Cell Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/50 (2%)	3/50 (6%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/42.87	3/41.66	1/43.89	0/45.16
POLY-3 PERCENT (g)	2.3%	7.2%	2.3%	0%
TERMINAL (d)	0/28 (0%)	2/21 (10%)	1/25 (4%)	0/36 (0%)
FIRST INCIDENCE	675	705	729 (T)	---
HC TUMORS SAME ROUTE	12/298 (4%)			
HC TUMORS ALL ROUTES	40/1341 (3%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.185N	P=0.294	P=0.756N	P=0.490N
POLY 1.5	P=0.192N	P=0.299	P=0.758N	P=0.495N
POLY 6	P=0.175N	P=0.287	P=0.753N	P=0.481N
COCH-ARM / FISHERS	P=0.199N	P=0.309	P=0.753N	P=0.500N
MAX-ISO-POLY-3	P=0.152N	P=0.149	P=0.493N	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Thyroid Gland: C-Cell Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	8/50 (16%)	8/50 (16%)	4/50 (8%)	9/50 (18%)
POLY-3 RATE (b)	8/43.85	8/42.55	4/44.37	9/45.78
POLY-3 PERCENT (g)	18.2%	18.8%	9%	19.7%
TERMINAL (d)	3/28 (11%)	4/21 (19%)	2/25 (8%)	6/36 (17%)
FIRST INCIDENCE	621	512	596	634
HC TUMORS SAME ROUTE	31/298 (10%)			
HC TUMORS ALL ROUTES	206/1341 (15%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.529	P=0.583	P=0.169N	P=0.539
POLY 1.5	P=0.507	P=0.594	P=0.173N	P=0.518
POLY 6	P=0.551N	P=0.564	P=0.166N	P=0.572
COCH-ARM / FISHERS	P=0.487	P=0.607N	P=0.178N	P=0.500
MAX-ISO-POLY-3	P=0.466	P=0.473	P=0.103N	P=0.432
HISTCONT SAME RTE	P=0.324	P=0.279	P=1.000	P=0.223
HISTCONT ALL RTEs	P=0.542	P=0.576	P=1.000	P=0.526

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Zymbal's Gland Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	2/50 (4%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/42.66	1/41.57	0/43.89	0/45.16
POLY-3 PERCENT (g)	4.7%	2.4%	0%	0%
TERMINAL (d)	2/28 (7%)	1/21 (5%)	0/25 (0%)	0/36 (0%)
FIRST INCIDENCE	729 (T)	729 (T)	---	---
HC TUMORS SAME ROUTE	0/299 (0%)			
HC TUMORS ALL ROUTES	2/1348 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.097N	P=0.509N	P=0.231N	P=0.225N
POLY 1.5	P=0.099N	P=0.505N	P=0.234N	P=0.231N
POLY 6	P=0.094N	P=0.515N	P=0.226N	P=0.214N
COCH-ARM / FISHERS	P=0.101N	P=0.500N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.077N	P=0.290N	P=0.076N	P=0.076N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Zymbal's Gland Carcinoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	3/50 (6%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/42.66	3/42.82	0/43.89	2/45.26
POLY-3 PERCENT (g)	0%	7%	0%	4.4%
TERMINAL (d)	0/28 (0%)	0/21 (0%)	0/25 (0%)	1/36 (3%)
FIRST INCIDENCE	---	583	---	702
HC TUMORS SAME ROUTE	2/299 (1%)			
HC TUMORS ALL ROUTES	9/1348 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.374	P=0.119	(e)	P=0.250
POLY 1.5	P=0.362	P=0.119	(e)	P=0.244
POLY 6	P=0.393	P=0.119	(e)	P=0.262
COCH-ARM / FISHERS	P=0.353	P=0.121	(e)	P=0.247
MAX-ISO-POLY-3	P=0.178	P=0.038*	(e)	P=0.089
HISTCONT SAME RTE	P=0.213	P=0.039*	(e)	P=0.064
HISTCONT ALL RTEs	P=0.072	P=0.012*	(e)	P=0.062



TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Zymbal's Gland</b>				
<b>Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	2/50 (4%)	4/50 (8%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	2/42.66	4/42.82	0/43.89	2/45.26
POLY-3 PERCENT (g)	4.7%	9.3%	0%	4.4%
TERMINAL (d)	2/28 (7%)	1/21 (5%)	0/25 (0%)	1/36 (3%)
FIRST INCIDENCE	729 (T)	583	---	702
HC TUMORS SAME ROUTE	2/299 (1%)			
HC TUMORS ALL ROUTES	11/1348 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.383N	P=0.338	P=0.231N	P=0.673N
POLY 1.5	P=0.393N	P=0.337	P=0.234N	P=0.684N
POLY 6	P=0.367N	P=0.340	P=0.226N	P=0.654N
COCH-ARM / FISHERS	P=0.402N	P=0.339	P=0.247N	P=0.691N
MAX-ISO-POLY-3	P=0.238N	P=0.201	P=0.076N	P=0.475N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>All Organs</b>				
<b>Histiocytic Sarcoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	2/50 (4%)
POLY-3 RATE (b)	0/42.66	0/41.57	0/43.89	2/45.52
POLY-3 PERCENT (g)	0%	0%	0%	4.4%
TERMINAL (d)	0/28 (0%)	0/21 (0%)	0/25 (0%)	1/36 (3%)
FIRST INCIDENCE	---	---	---	628
HC TUMORS SAME ROUTE	1/299 (0%)			
HC TUMORS ALL ROUTES	11/1348 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.049*	(e)	(e)	P=0.252
POLY 1.5	P=0.047*	(e)	(e)	P=0.244
POLY 6	P=0.052	(e)	(e)	P=0.264
COCH-ARM / FISHERS	P=0.046*	(e)	(e)	P=0.247
MAX-ISO-POLY-3	P=0.044*	(e)	(e)	P=0.090
HISTCONT SAME RTE	P=0.037*	(e)	(e)	P=0.040*
HISTCONT ALL RTEs	P=0.050*	(e)	(e)	P=0.080

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>All Organs</b>				
<b>Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	25/50 (50%)	18/50 (36%)	33/50 (66%)	24/50 (48%)
POLY-3 RATE (b)	25/47.53	18/43.67	33/47.68	24/47.68
POLY-3 PERCENT (g)	52.6%	41.2%	69.2%	50.3%
TERMINAL (d)	12/28 (43%)	9/21 (43%)	16/25 (64%)	16/36 (44%)
FIRST INCIDENCE	505	473	475	527
HC TUMORS SAME ROUTE	152/299 (51%)			
HC TUMORS ALL ROUTES	511/1348 (38%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.421	P=0.185N	P=0.068	P=0.494N
POLY 1.5	P=0.378	P=0.150N	P=0.070	P=0.505N
POLY 6	P=0.495	P=0.244N	P=0.068	P=0.467N
COCH-ARM / FISHERS	P=0.349	P=0.113N	P=0.078	P=0.500N
MAX-ISO-POLY-3	P=0.157	P=0.143N	P=0.044*	P=0.410N
HISTCONT SAME RTE	P=0.186	P=1.000	P=0.050*	P=1.000
HISTCONT ALL RTEs	P=0.139	P=1.000	P=0.047*	P=0.383

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>All Organs</b>				
<b>Mesothelioma: Benign, Malignant, NOS</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	3/50 (6%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/42.66	3/42.01	1/43.95	0/45.16
POLY-3 PERCENT (g)	0%	7.1%	2.3%	0%
TERMINAL (d)	0/28 (0%)	1/21 (5%)	0/25 (0%)	0/36 (0%)
FIRST INCIDENCE	---	635	715	---
HC TUMORS SAME ROUTE	5/299 (2%)			
HC TUMORS ALL ROUTES	36/1348 (3%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.343N	P=0.115	P=0.506	(e)
POLY 1.5	P=0.354N	P=0.117	P=0.503	(e)
POLY 6	P=0.327N	P=0.114	P=0.510	(e)
COCH-ARM / FISHERS	P=0.364N	P=0.121	P=0.500	(e)
MAX-ISO-POLY-3	P=0.222N	P=0.038*	P=0.166	(e)
HISTCONT SAME RTE	(h)	(h)	(h)	(e)
HISTCONT ALL RTEs	(h)	(h)	(h)	(e)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>All Organs</b>				
<b>Mesothelioma: Malignant</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	3/50 (6%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/42.66	3/42.01	1/43.95	0/45.16
POLY-3 PERCENT (g)	0%	7.1%	2.3%	0%
TERMINAL (d)	0/28 (0%)	1/21 (5%)	0/25 (0%)	0/36 (0%)
FIRST INCIDENCE	---	635	715	---
HC TUMORS SAME ROUTE	5/299 (2%)			
HC TUMORS ALL ROUTES	35/1348 (3%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.343N	P=0.115	P=0.506	(e)
POLY 1.5	P=0.354N	P=0.117	P=0.503	(e)
POLY 6	P=0.327N	P=0.114	P=0.510	(e)
COCH-ARM / FISHERS	P=0.364N	P=0.121	P=0.500	(e)
MAX-ISO-POLY-3	P=0.222N	P=0.038*	P=0.166	(e)
HISTCONT SAME RTE	(h)	(h)	(h)	(e)
HISTCONT ALL RTEs	(h)	(h)	(h)	(e)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>All Organs</b>				
<b>Benign Tumors</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	44/50 (88%)	48/50 (96%)	49/50 (98%)	48/50 (96%)
POLY-3 RATE (b)	44/47.30	48/48.75	49/49.28	48/48.44
POLY-3 PERCENT (g)	93%	98.5%	99.4%	99.1%
TERMINAL (d)	27/28 (96%)	21/21 (100%)	25/25 (100%)	36/36 (100%)
FIRST INCIDENCE	549	455	453	562
HC TUMORS SAME ROUTE	290/299 (97%)			
HC TUMORS ALL ROUTES	1306/1348 (97%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.035*	P=0.147	P=0.073	P=0.098
POLY 1.5	P=0.042*	P=0.131	P=0.057	P=0.089
POLY 6	P=0.069	P=0.231	P=0.166	P=0.188
COCH-ARM / FISHERS	P=0.095	P=0.134	P=0.056	P=0.134
MAX-ISO-POLY-3	P=0.007**	P=0.046*	P=0.018*	P=0.026*
HISTCONT SAME RTE	P=0.007**	P=0.053	P=0.019*	P=0.028*
HISTCONT ALL RTEs	P=0.007**	P=0.050*	P=0.018*	P=0.026*

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>All Organs</b>				
<b>Malignant Tumors</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	31/50 (62%)	31/50 (62%)	37/50 (74%)	32/50 (64%)
POLY-3 RATE (b)	31/48.55	31/46.78	37/48.51	32/48.15
POLY-3 PERCENT (g)	63.9%	66.3%	76.3%	66.5%
TERMINAL (d)	15/28 (54%)	13/21 (62%)	17/25 (68%)	22/36 (61%)
FIRST INCIDENCE	505	473	475	527
HC TUMORS SAME ROUTE	202/299 (68%)			
HC TUMORS ALL ROUTES	753/1348 (56%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.395	P=0.487	P=0.128	P=0.478
POLY 1.5	P=0.380	P=0.527	P=0.131	P=0.475
POLY 6	P=0.435	P=0.434	P=0.129	P=0.495
COCH-ARM / FISHERS	P=0.391	P=0.582N	P=0.142	P=0.500
MAX-ISO-POLY-3	P=0.338	P=0.401	P=0.087	P=0.392
HISTCONT SAME RTE	P=0.407	P=0.524	P=0.105	P=0.509
HISTCONT ALL RTEs	P=0.184	P=0.406	P=0.099	P=0.393

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>All Organs</b>				
<b>Malignant and Benign Tumors</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	49/50 (98%)	50/50 (100%)	50/50 (100%)	49/50 (98%)
POLY-3 RATE (b)	49/49.46	50/50.00	50/50.00	49/49.06
POLY-3 PERCENT (g)	99.1%	100%	100%	99.9%
TERMINAL (d)	28/28 (100%)	21/21 (100%)	25/25 (100%)	36/36 (100%)
FIRST INCIDENCE	505	455	453	527
HC TUMORS SAME ROUTE	299/299 (100%)			
HC TUMORS ALL ROUTES	1339/1348 (99%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.689	P=0.879	P=0.879	P=0.904
POLY 1.5	P=0.639	P=0.682	P=0.682	P=0.787
POLY 6	P=0.980	P=1.000	P=1.000	P=1.000
COCH-ARM / FISHERS	P=0.594N	P=0.500	P=0.500	P=0.753N
MAX-ISO-POLY-3	P=0.148	P=0.160	P=0.160	P=0.201
HISTCONT SAME RTE	P=0.176	(e)	(e)	P=0.256
HISTCONT ALL RTEs	P=0.169	P=0.190	P=0.190	P=0.243



TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Adrenal Cortex Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	4/50 (8%)	6/50 (12%)	2/50 (4%)	6/50 (12%)
POLY-3 RATE (b)	4/43.40	6/45.17	2/43.69	6/44.78
POLY-3 PERCENT (g)	9.2%	13.3%	4.6%	13.4%
TERMINAL (d)	2/31 (7%)	5/31 (16%)	1/30 (3%)	3/34 (9%)
FIRST INCIDENCE	688	706	682	647
HC TUMORS SAME ROUTE	13/300 (4%)			
HC TUMORS ALL ROUTES	24/1296 (2%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.414	P=0.395	P=0.334N	P=0.389
POLY 1.5	P=0.409	P=0.388	P=0.335N	P=0.381
POLY 6	P=0.423	P=0.395	P=0.334N	P=0.399
COCH-ARM / FISHERS	P=0.402	P=0.370	P=0.339N	P=0.370
MAX-ISO-POLY-3	P=0.410	P=0.278	P=0.198N	P=0.272
HISTCONT SAME RTE	P=0.277	P=0.225	P=1.000	P=0.223
HISTCONT ALL RTEs	P=0.006**	P=0.032*	P=0.413	P=0.032*

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Adrenal Medulla</b>				
<b>Pheochromocytoma Benign</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/43.14	1/45.08	2/43.85	1/44.02
POLY-3 PERCENT (g)	0%	2.2%	4.6%	2.3%
TERMINAL (d)	0/31 (0%)	1/31 (3%)	0/30 (0%)	1/34 (3%)
FIRST INCIDENCE	---	730 (T)	639	730 (T)
HC TUMORS SAME ROUTE	10/299 (3%)			
HC TUMORS ALL ROUTES	37/1288 (3%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.373	P=0.509	P=0.241	P=0.504
POLY 1.5	P=0.371	P=0.506	P=0.239	P=0.503
POLY 6	P=0.376	P=0.510	P=0.242	P=0.506
COCH-ARM / FISHERS	P=0.366	P=0.500	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.237	P=0.169	P=0.079	P=0.164
HISTCONT SAME RTE	P=0.285	P=0.213	P=0.096	P=0.205
HISTCONT ALL RTEs	P=0.273	P=0.202	P=0.090	P=0.194

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Adrenal Medulla</b>				
<b>Pheochromocytoma Complex</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.14	0/45.08	0/43.50	0/44.02
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/31 (0%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	2/299 (1%)			
HC TUMORS ALL ROUTES	4/1288 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Adrenal Medulla</b>				
<b>Pheochromocytoma Malignant</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/43.14	1/45.39	1/43.50	1/44.49
POLY-3 PERCENT (g)	0%	2.2%	2.3%	2.3%
TERMINAL (d)	0/31 (0%)	0/31 (0%)	1/30 (3%)	0/34 (0%)
FIRST INCIDENCE	---	645	730 (T)	592
HC TUMORS SAME ROUTE	2/299 (1%)			
HC TUMORS ALL ROUTES	8/1288 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.395	P=0.510	P=0.502	P=0.506
POLY 1.5	P=0.391	P=0.507	P=0.501	P=0.504
POLY 6	P=0.400	P=0.512	P=0.502	P=0.509
COCH-ARM / FISHERS	P=0.384	P=0.500	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.342	P=0.171	P=0.161	P=0.166
HISTCONT SAME RTE	P=0.334	P=0.215	P=0.201	P=0.208
HISTCONT ALL RTEs	P=0.204	P=0.205	P=0.191	P=0.198

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Adrenal Medulla</b>				
<b>Pheochromocytoma: Benign, Complex, Malignant, NOS</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	0/43.14	2/45.39	3/43.85	2/44.49
POLY-3 PERCENT (g)	0%	4.4%	6.8%	4.5%
TERMINAL (d)	0/31 (0%)	1/31 (3%)	1/30 (3%)	1/34 (3%)
FIRST INCIDENCE	---	645	639	592
HC TUMORS SAME ROUTE	14/299 (5%)			
HC TUMORS ALL ROUTES	49/1288 (4%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.248	P=0.249	P=0.121	P=0.244
POLY 1.5	P=0.244	P=0.245	P=0.120	P=0.241
POLY 6	P=0.254	P=0.251	P=0.122	P=0.247
COCH-ARM / FISHERS	P=0.237	P=0.247	P=0.121	P=0.247
MAX-ISO-POLY-3	P=0.145	P=0.087	P=0.040*	P=0.082
HISTCONT SAME RTE	P=0.173	P=0.105	P=0.046*	P=0.099
HISTCONT ALL RTEs	P=0.166	P=0.100	P=0.043*	P=0.094

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

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Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Clitoral/Preputial Gland Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/50 (2%)	2/50 (4%)	3/50 (6%)	2/50 (4%)
POLY-3 RATE (b)	1/43.14	2/45.38	3/43.50	2/44.23
POLY-3 PERCENT (g)	2.3%	4.4%	6.9%	4.5%
TERMINAL (d)	1/31 (3%)	1/31 (3%)	3/30 (10%)	1/34 (3%)
FIRST INCIDENCE	730 (T)	646	730 (T)	675
HC TUMORS SAME ROUTE	8/299 (3%)			
HC TUMORS ALL ROUTES	124/1297 (10%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.411	P=0.518	P=0.308	P=0.509
POLY 1.5	P=0.408	P=0.512	P=0.307	P=0.505
POLY 6	P=0.417	P=0.522	P=0.308	P=0.513
COCH-ARM / FISHERS	P=0.404	P=0.500	P=0.309	P=0.500
MAX-ISO-POLY-3	P=0.370	P=0.300	P=0.157	P=0.290
HISTCONT SAME RTE	P=0.447	P=0.388	P=0.196	P=0.374
HISTCONT ALL RTEs	P=0.431	P=0.376	P=0.186	P=0.361

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

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Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Clitoral/Preputial Gland Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/50 (2%)	2/50 (4%)	4/50 (8%)	2/50 (4%)
POLY-3 RATE (b)	1/43.14	2/45.38	4/43.52	2/44.23
POLY-3 PERCENT (g)	2.3%	4.4%	9.2%	4.5%
TERMINAL (d)	1/31 (3%)	1/31 (3%)	3/30 (10%)	1/34 (3%)
FIRST INCIDENCE	730 (T)	646	725	675
HC TUMORS SAME ROUTE	17/299 (6%)			
HC TUMORS ALL ROUTES	161/1297 (12%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.394	P=0.518	P=0.181	P=0.509
POLY 1.5	P=0.391	P=0.512	P=0.180	P=0.505
POLY 6	P=0.400	P=0.522	P=0.180	P=0.513
COCH-ARM / FISHERS	P=0.386	P=0.500	P=0.181	P=0.500
MAX-ISO-POLY-3	P=0.279	P=0.300	P=0.086	P=0.290
HISTCONT SAME RTE	P=0.336	P=0.388	P=0.104	P=0.374
HISTCONT ALL RTEs	P=0.324	P=0.376	P=0.098	P=0.361

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

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Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Intestine Small: Site Unspecified Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.14	0/45.08	0/43.50	0/44.02
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/31 (0%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/300 (0%)			
HC TUMORS ALL ROUTES	0/1300 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)



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Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

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Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Islets, Pancreatic Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	2/50 (4%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	2/43.38	1/45.08	2/43.90	1/44.02
POLY-3 PERCENT (g)	4.6%	2.2%	4.6%	2.3%
TERMINAL (d)	1/31 (3%)	1/31 (3%)	1/30 (3%)	1/34 (3%)
FIRST INCIDENCE	665	730 (T)	618	730 (T)
HC TUMORS SAME ROUTE	5/300 (2%)			
HC TUMORS ALL ROUTES	21/1290 (2%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.446N	P=0.487N	P=0.690N	P=0.495N
POLY 1.5	P=0.446N	P=0.490N	P=0.691N	P=0.496N
POLY 6	P=0.445N	P=0.486N	P=0.689N	P=0.494N
COCH-ARM / FISHERS	P=0.445N	P=0.500N	P=0.691N	P=0.500N
MAX-ISO-POLY-3	P=0.445N	P=0.273N	P=0.494N	P=0.277N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

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Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Islets, Pancreatic Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/43.14	0/45.08	2/43.61	0/44.02
POLY-3 PERCENT (g)	0%	0%	4.6%	0%
TERMINAL (d)	0/31 (0%)	0/31 (0%)	1/30 (3%)	0/34 (0%)
FIRST INCIDENCE	---	---	702	---
HC TUMORS SAME ROUTE	2/300 (1%)			
HC TUMORS ALL ROUTES	4/1290 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.599	(e)	P=0.239	(e)
POLY 1.5	P=0.597	(e)	P=0.239	(e)
POLY 6	P=0.602	(e)	P=0.240	(e)
COCH-ARM / FISHERS	P=0.594	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.257	(e)	P=0.078	(e)
HISTCONT SAME RTE	P=0.309	(e)	P=0.068	(e)
HISTCONT ALL RTEs	P=0.194	(e)	P=0.004**	(e)

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Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

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STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Islets, Pancreatic Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	2/50 (4%)	1/50 (2%)	4/50 (8%)	1/50 (2%)
POLY-3 RATE (b)	2/43.38	1/45.08	4/44.01	1/44.02
POLY-3 PERCENT (g)	4.6%	2.2%	9.1%	2.3%
TERMINAL (d)	1/31 (3%)	1/31 (3%)	2/30 (7%)	1/34 (3%)
FIRST INCIDENCE	665	730 (T)	618	730 (T)
HC TUMORS SAME ROUTE	7/300 (2%)			
HC TUMORS ALL ROUTES	25/1290 (2%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.501N	P=0.487N	P=0.343	P=0.495N
POLY 1.5	P=0.501N	P=0.490N	P=0.341	P=0.496N
POLY 6	P=0.500N	P=0.486N	P=0.345	P=0.494N
COCH-ARM / FISHERS	P=0.501N	P=0.500N	P=0.339	P=0.500N
MAX-ISO-POLY-3	P=0.406N	P=0.273N	P=0.207	P=0.277N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

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STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Liver</b>				
<b>Hepatocellular Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/43.14	0/45.08	0/43.50	0/44.02
POLY-3 PERCENT (g)	2.3%	0%	0%	0%
TERMINAL (d)	1/31 (3%)	0/31 (0%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	730 (T)	---	---	---
HC TUMORS SAME ROUTE	0/300 (0%)			
HC TUMORS ALL ROUTES	16/1300 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.313N	P=0.491N	P=0.498N	P=0.496N
POLY 1.5	P=0.311N	P=0.494N	P=0.499N	P=0.497N
POLY 6	P=0.314N	P=0.490N	P=0.498N	P=0.494N
COCH-ARM / FISHERS	P=0.306N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.124N	P=0.158N	P=0.158N	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

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Test Type: CHRONIC

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Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

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STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Lung</b>				
<b>Alveolar/Bronchiolar Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/43.14	0/45.08	0/43.50	1/44.42
POLY-3 PERCENT (g)	0%	0%	0%	2.3%
TERMINAL (d)	0/31 (0%)	0/31 (0%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	618
HC TUMORS SAME ROUTE	3/300 (1%)			
HC TUMORS ALL ROUTES	7/1300 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.200	(e)	(e)	P=0.506
POLY 1.5	P=0.199	(e)	(e)	P=0.504
POLY 6	P=0.202	(e)	(e)	P=0.509
COCH-ARM / FISHERS	P=0.198	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.134	(e)	(e)	P=0.166
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

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Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Lung</b>				
<b>Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/43.14	0/45.08	0/43.50	1/44.42
POLY-3 PERCENT (g)	0%	0%	0%	2.3%
TERMINAL (d)	0/31 (0%)	0/31 (0%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	618
HC TUMORS SAME ROUTE	5/300 (2%)			
HC TUMORS ALL ROUTES	30/1300 (2%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.200	(e)	(e)	P=0.506
POLY 1.5	P=0.199	(e)	(e)	P=0.504
POLY 6	P=0.202	(e)	(e)	P=0.509
COCH-ARM / FISHERS	P=0.198	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.134	(e)	(e)	P=0.166
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

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Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Mammary Gland Carcinoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	9/50 (18%)	3/50 (6%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	9/43.81	3/45.74	2/43.53	2/44.09
POLY-3 PERCENT (g)	20.5%	6.6%	4.6%	4.5%
TERMINAL (d)	6/31 (19%)	1/31 (3%)	1/30 (3%)	1/34 (3%)
FIRST INCIDENCE	638	631	724	712
HC TUMORS SAME ROUTE	32/300 (11%)			
HC TUMORS ALL ROUTES	65/1300 (5%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.017N*	P=0.049N*	P=0.025N*	P=0.023N*
POLY 1.5	P=0.016N*	P=0.053N	P=0.025N*	P=0.024N*
POLY 6	P=0.017N*	P=0.047N*	P=0.025N*	P=0.023N*
COCH-ARM / FISHERS	P=0.017N*	P=0.061N	P=0.026N*	P=0.026N*
MAX-ISO-POLY-3	P=0.006N**	P=0.027N*	P=0.011N*	P=0.010N**
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

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Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Mammary Gland Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	10/50 (20%)	3/50 (6%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	10/44.19	3/45.74	2/43.53	2/44.09
POLY-3 PERCENT (g)	22.6%	6.6%	4.6%	4.5%
TERMINAL (d)	6/31 (19%)	1/31 (3%)	1/30 (3%)	1/34 (3%)
FIRST INCIDENCE	625	631	724	712
HC TUMORS SAME ROUTE	35/300 (12%)			
HC TUMORS ALL ROUTES	84/1300 (7%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.009N**	P=0.029N*	P=0.014N*	P=0.013N*
POLY 1.5	P=0.008N**	P=0.030N*	P=0.014N*	P=0.013N*
POLY 6	P=0.009N**	P=0.028N*	P=0.015N*	P=0.013N*
COCH-ARM / FISHERS	P=0.009N**	P=0.036N*	P=0.014N*	P=0.014N*
MAX-ISO-POLY-3	P=0.002N**	P=0.015N*	P=0.006N**	P=0.005N**
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)



TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Mammary Gland Fibroadenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	27/50 (54%)	25/50 (50%)	25/50 (50%)	24/50 (48%)
POLY-3 RATE (b)	27/46.07	25/47.44	25/45.14	24/46.19
POLY-3 PERCENT (g)	58.6%	52.7%	55.4%	52%
TERMINAL (d)	17/31 (55%)	16/31 (52%)	18/30 (60%)	17/34 (50%)
FIRST INCIDENCE	486	575	481	592
HC TUMORS SAME ROUTE	133/300 (44%)			
HC TUMORS ALL ROUTES	674/1300 (52%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.336N	P=0.355N	P=0.460N	P=0.330N
POLY 1.5	P=0.334N	P=0.376N	P=0.442N	P=0.336N
POLY 6	P=0.333N	P=0.344N	P=0.493N	P=0.322N
COCH-ARM / FISHERS	P=0.325N	P=0.421N	P=0.421N	P=0.345N
MAX-ISO-POLY-3	P=0.415N	P=0.283N	P=0.375N	P=0.258N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Mammary Gland</b>				
<b>Fibroma, Fibroadenoma or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	27/50 (54%)	25/50 (50%)	25/50 (50%)	24/50 (48%)
POLY-3 RATE (b)	27/46.07	25/47.44	25/45.14	24/46.19
POLY-3 PERCENT (g)	58.6%	52.7%	55.4%	52%
TERMINAL (d)	17/31 (55%)	16/31 (52%)	18/30 (60%)	17/34 (50%)
FIRST INCIDENCE	486	575	481	592
HC TUMORS SAME ROUTE	135/300 (45%)			
HC TUMORS ALL ROUTES	684/1300 (53%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.336N	P=0.355N	P=0.460N	P=0.330N
POLY 1.5	P=0.334N	P=0.376N	P=0.442N	P=0.336N
POLY 6	P=0.333N	P=0.344N	P=0.493N	P=0.322N
COCH-ARM / FISHERS	P=0.325N	P=0.421N	P=0.421N	P=0.345N
MAX-ISO-POLY-3	P=0.415N	P=0.283N	P=0.375N	P=0.258N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Mammary Gland</b>				
<b>Fibroma, Fibroadenoma, Carcinoma, or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	30/50 (60%)	26/50 (52%)	26/50 (52%)	24/50 (48%)
POLY-3 RATE (b)	30/46.65	26/47.75	26/45.17	24/46.19
POLY-3 PERCENT (g)	64.3%	54.5%	57.6%	52%
TERMINAL (d)	18/31 (58%)	16/31 (52%)	18/30 (60%)	17/34 (50%)
FIRST INCIDENCE	486	575	481	592
HC TUMORS SAME ROUTE	155/300 (52%)			
HC TUMORS ALL ROUTES	718/1300 (55%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.174N	P=0.218N	P=0.323N	P=0.155N
POLY 1.5	P=0.167N	P=0.233N	P=0.298N	P=0.154N
POLY 6	P=0.182N	P=0.215N	P=0.373N	P=0.159N
COCH-ARM / FISHERS	P=0.158N	P=0.273N	P=0.273N	P=0.158N
MAX-ISO-POLY-3	P=0.177N	P=0.164N	P=0.252N	P=0.110N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Pituitary Gland: Pars Distalis or Unspecified Site Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	29/50 (58%)	33/50 (66%)	36/50 (72%)	23/50 (46%)
POLY-3 RATE (b)	29/46.24	33/48.58	36/47.20	23/45.73
POLY-3 PERCENT (g)	62.7%	67.9%	76.3%	50.3%
TERMINAL (d)	18/31 (58%)	20/31 (65%)	22/30 (73%)	15/34 (44%)
FIRST INCIDENCE	536	574	544	618
HC TUMORS SAME ROUTE	195/298 (65%)			
HC TUMORS ALL ROUTES	715/1294 (55%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.101N	P=0.373	P=0.108	P=0.156N
POLY 1.5	P=0.093N	P=0.336	P=0.102	P=0.154N
POLY 6	P=0.111N	P=0.403	P=0.120	P=0.161N
COCH-ARM / FISHERS	P=0.089N	P=0.268	P=0.104	P=0.158N
MAX-ISO-POLY-3	P=0.043N*	P=0.298	P=0.073	P=0.111N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Pituitary Gland: Pars Distalis or Unspecified Site Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/43.47	1/45.58	1/43.83	1/44.82
POLY-3 PERCENT (g)	4.6%	2.2%	2.3%	2.2%
TERMINAL (d)	1/31 (3%)	0/31 (0%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	638	578	638	429
HC TUMORS SAME ROUTE	1/298 (0%)			
HC TUMORS ALL ROUTES	12/1294 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.410N	P=0.483N	P=0.497N	P=0.489N
POLY 1.5	P=0.410N	P=0.489N	P=0.498N	P=0.493N
POLY 6	P=0.409N	P=0.481N	P=0.497N	P=0.487N
COCH-ARM / FISHERS	P=0.409N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.413N	P=0.271N	P=0.279N	P=0.274N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Pituitary Gland: Pars Distalis or Unspecified Site Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	31/50 (62%)	34/50 (68%)	37/50 (74%)	24/50 (48%)
POLY-3 RATE (b)	31/46.57	34/49.08	37/47.54	24/46.53
POLY-3 PERCENT (g)	66.6%	69.3%	77.8%	51.6%
TERMINAL (d)	19/31 (61%)	20/31 (65%)	22/30 (73%)	15/34 (44%)
FIRST INCIDENCE	536	574	544	429
HC TUMORS SAME ROUTE	196/298 (66%)			
HC TUMORS ALL ROUTES	727/1294 (56%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.062N	P=0.474	P=0.155	P=0.098N
POLY 1.5	P=0.058N	P=0.426	P=0.144	P=0.100N
POLY 6	P=0.070N	P=0.510	P=0.173	P=0.103N
COCH-ARM / FISHERS	P=0.062N	P=0.338	P=0.142	P=0.114N
MAX-ISO-POLY-3	P=0.030N*	P=0.388	P=0.107	P=0.066N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Skin</b>				
Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	1/43.14	1/45.08	0/43.50	1/44.02
POLY-3 PERCENT (g)	2.3%	2.2%	0%	2.3%
TERMINAL (d)	1/31 (3%)	1/31 (3%)	0/30 (0%)	1/34 (3%)
FIRST INCIDENCE	730 (T)	730 (T)	---	730 (T)
HC TUMORS SAME ROUTE	3/300 (1%)			
HC TUMORS ALL ROUTES	23/1300 (2%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.615N	P=0.751N	P=0.498N	P=0.756N
POLY 1.5	P=0.615N	P=0.754N	P=0.499N	P=0.758N
POLY 6	P=0.615N	P=0.750N	P=0.498N	P=0.755N
COCH-ARM / FISHERS	P=0.616N	P=0.753N	P=0.500N	P=0.753N
MAX-ISO-POLY-3	P=0.537N	P=0.487N	P=0.158N	P=0.493N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Skin</b>				
<b>Fibroma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	1/43.14	0/45.08	1/43.50	1/44.02
POLY-3 PERCENT (g)	2.3%	0%	2.3%	2.3%
TERMINAL (d)	1/31 (3%)	0/31 (0%)	1/30 (3%)	1/34 (3%)
FIRST INCIDENCE	730 (T)	---	730 (T)	730 (T)
HC TUMORS SAME ROUTE	4/300 (1%)			
HC TUMORS ALL ROUTES	24/1300 (2%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.537	P=0.491N	P=0.759N	P=0.756N
POLY 1.5	P=0.537	P=0.494N	P=0.760N	P=0.758N
POLY 6	P=0.538	P=0.490N	P=0.759N	P=0.755N
COCH-ARM / FISHERS	P=0.538	P=0.500N	P=0.753N	P=0.753N
MAX-ISO-POLY-3	P=0.542	P=0.158N	P=0.497N	P=0.493N
HISTCONT SAME RTE	P=0.626	(e)	P=0.482	P=0.486
HISTCONT ALL RTEs	P=0.637	(e)	P=0.598	P=0.602



TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Skin</b>				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	1/43.14	1/45.08	2/43.50	1/44.02
POLY-3 PERCENT (g)	2.3%	2.2%	4.6%	2.3%
TERMINAL (d)	1/31 (3%)	1/31 (3%)	2/30 (7%)	1/34 (3%)
FIRST INCIDENCE	730 (T)	730 (T)	730 (T)	730 (T)
HC TUMORS SAME ROUTE	6/300 (2%)			
HC TUMORS ALL ROUTES	31/1300 (2%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.593	P=0.751N	P=0.503	P=0.756N
POLY 1.5	P=0.592	P=0.754N	P=0.502	P=0.758N
POLY 6	P=0.596	P=0.750N	P=0.503	P=0.755N
COCH-ARM / FISHERS	P=0.591	P=0.753N	P=0.500	P=0.753N
MAX-ISO-POLY-3	P=0.588	P=0.487N	P=0.283	P=0.493N
HISTCONT SAME RTE	P=0.613	P=1.000	P=0.254	P=1.000
HISTCONT ALL RTEs	P=0.692	P=1.000	P=0.351	P=1.000

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

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First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Skin</b>				
<b>Fibrosarcoma, Sarcoma, Myxosarcoma, or Fibrous Histiocytoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	0/43.14	1/45.08	1/43.50	0/44.02
POLY-3 PERCENT (g)	0%	2.2%	2.3%	0%
TERMINAL (d)	0/31 (0%)	1/31 (3%)	1/30 (3%)	0/34 (0%)
FIRST INCIDENCE	---	730 (T)	730 (T)	---
HC TUMORS SAME ROUTE	2/300 (1%)			
HC TUMORS ALL ROUTES	8/1300 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.588N	P=0.509	P=0.502	(e)
POLY 1.5	P=0.590N	P=0.506	P=0.501	(e)
POLY 6	P=0.586N	P=0.510	P=0.502	(e)
COCH-ARM / FISHERS	P=0.594N	P=0.500	P=0.500	(e)
MAX-ISO-POLY-3	P=0.413N	P=0.169	P=0.161	(e)
HISTCONT SAME RTE	(h)	(h)	(h)	(e)
HISTCONT ALL RTEs	(h)	(h)	(h)	(e)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Skin</b>				
<b>Keratoacanthoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/43.14	0/45.08	0/43.50	0/44.02
POLY-3 PERCENT (g)	2.3%	0%	0%	0%
TERMINAL (d)	1/31 (3%)	0/31 (0%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	730 (T)	---	---	---
HC TUMORS SAME ROUTE	1/300 (0%)			
HC TUMORS ALL ROUTES	7/1300 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.313N	P=0.491N	P=0.498N	P=0.496N
POLY 1.5	P=0.311N	P=0.494N	P=0.499N	P=0.497N
POLY 6	P=0.314N	P=0.490N	P=0.498N	P=0.494N
COCH-ARM / FISHERS	P=0.306N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.124N	P=0.158N	P=0.158N	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Skin</b>				
<b>Sarcoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.14	0/45.08	0/43.50	0/44.02
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/31 (0%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/300 (0%)			
HC TUMORS ALL ROUTES	2/1300 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Skin</b>				
<b>Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/43.14	0/45.08	0/43.50	0/44.02
POLY-3 PERCENT (g)	2.3%	0%	0%	0%
TERMINAL (d)	1/31 (3%)	0/31 (0%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	730 (T)	---	---	---
HC TUMORS SAME ROUTE	2/300 (1%)			
HC TUMORS ALL ROUTES	15/1300 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.313N	P=0.491N	P=0.498N	P=0.496N
POLY 1.5	P=0.311N	P=0.494N	P=0.499N	P=0.497N
POLY 6	P=0.314N	P=0.490N	P=0.498N	P=0.494N
COCH-ARM / FISHERS	P=0.306N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.124N	P=0.158N	P=0.158N	P=0.158N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Thyroid Gland: C-Cell Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	4/50 (8%)	6/50 (12%)	3/50 (6%)	6/50 (12%)
POLY-3 RATE (b)	4/43.14	6/45.39	3/44.07	6/45.05
POLY-3 PERCENT (g)	9.3%	13.2%	6.8%	13.3%
TERMINAL (d)	4/31 (13%)	5/31 (16%)	2/30 (7%)	2/34 (6%)
FIRST INCIDENCE	730 (T)	645	553	647
HC TUMORS SAME ROUTE	17/300 (6%)			
HC TUMORS ALL ROUTES	137/1288 (11%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.409	P=0.402	P=0.488N	P=0.397
POLY 1.5	P=0.400	P=0.391	P=0.493N	P=0.385
POLY 6	P=0.425	P=0.408	P=0.484N	P=0.414
COCH-ARM / FISHERS	P=0.388	P=0.370	P=0.500N	P=0.370
MAX-ISO-POLY-3	P=0.443	P=0.285	P=0.338N	P=0.280
HISTCONT SAME RTE	P=0.053	P=0.028*	P=0.588	P=0.029*
HISTCONT ALL RTEs	P=0.515	P=0.356	P=1.000	P=0.348

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Thyroid Gland: C-Cell Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/43.14	1/45.40	0/43.50	1/44.09
POLY-3 PERCENT (g)	0%	2.2%	0%	2.3%
TERMINAL (d)	0/31 (0%)	0/31 (0%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	---	640	---	712
HC TUMORS SAME ROUTE	5/300 (2%)			
HC TUMORS ALL ROUTES	17/1288 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.412	P=0.510	(e)	P=0.504
POLY 1.5	P=0.410	P=0.507	(e)	P=0.503
POLY 6	P=0.415	P=0.513	(e)	P=0.506
COCH-ARM / FISHERS	P=0.406	P=0.500	(e)	P=0.500
MAX-ISO-POLY-3	P=0.264	P=0.171	(e)	P=0.164
HISTCONT SAME RTE	P=0.317	P=0.216	(e)	P=0.205
HISTCONT ALL RTEs	P=0.305	P=0.205	(e)	P=0.195

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Thyroid Gland: C-Cell Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	4/50 (8%)	7/50 (14%)	3/50 (6%)	7/50 (14%)
POLY-3 RATE (b)	4/43.14	7/45.71	3/44.07	7/45.13
POLY-3 PERCENT (g)	9.3%	15.3%	6.8%	15.5%
TERMINAL (d)	4/31 (13%)	5/31 (16%)	2/30 (7%)	2/34 (6%)
FIRST INCIDENCE	730 (T)	640	553	647
HC TUMORS SAME ROUTE	22/300 (7%)			
HC TUMORS ALL ROUTES	153/1288 (12%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.327	P=0.294	P=0.488N	P=0.287
POLY 1.5	P=0.318	P=0.283	P=0.493N	P=0.276
POLY 6	P=0.342	P=0.304	P=0.484N	P=0.304
COCH-ARM / FISHERS	P=0.307	P=0.262	P=0.500N	P=0.262
MAX-ISO-POLY-3	P=0.303	P=0.201	P=0.338N	P=0.193
HISTCONT SAME RTE	P=0.116	P=0.043*	P=1.000	P=0.043*
HISTCONT ALL RTEs	P=0.351	P=0.244	P=1.000	P=0.232



TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Uterus</b>				
<b>Polyp Stromal</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	8/50 (16%)	11/50 (22%)	8/50 (16%)	10/50 (20%)
POLY-3 RATE (b)	8/43.79	11/45.99	8/44.40	10/44.49
POLY-3 PERCENT (g)	18.3%	23.9%	18%	22.5%
TERMINAL (d)	5/31 (16%)	7/31 (23%)	6/30 (20%)	8/34 (24%)
FIRST INCIDENCE	646	607	481	592
HC TUMORS SAME ROUTE	57/300 (19%)			
HC TUMORS ALL ROUTES	233/1300 (18%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.443	P=0.346	P=0.597N	P=0.411
POLY 1.5	P=0.442	P=0.333	P=0.600N	P=0.407
POLY 6	P=0.441	P=0.352	P=0.599N	P=0.411
COCH-ARM / FISHERS	P=0.440	P=0.306	P=0.607N	P=0.398
MAX-ISO-POLY-3	P=0.503	P=0.262	P=0.487N	P=0.313
HISTCONT SAME RTE	P=0.605	P=0.338	P=1.000	P=0.407
HISTCONT ALL RTEs	P=0.589	P=0.325	P=1.000	P=0.393

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Uterus</b>				
<b>Sarcoma Stromal or Polyp Stromal</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	8/50 (16%)	12/50 (24%)	8/50 (16%)	10/50 (20%)
POLY-3 RATE (b)	8/43.79	12/45.99	8/44.40	10/44.49
POLY-3 PERCENT (g)	18.3%	26.1%	18%	22.5%
TERMINAL (d)	5/31 (16%)	8/31 (26%)	6/30 (20%)	8/34 (24%)
FIRST INCIDENCE	646	607	481	592
HC TUMORS SAME ROUTE	61/300 (20%)			
HC TUMORS ALL ROUTES	242/1300 (19%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.482	P=0.262	P=0.597N	P=0.411
POLY 1.5	P=0.481	P=0.251	P=0.600N	P=0.407
POLY 6	P=0.480	P=0.267	P=0.599N	P=0.411
COCH-ARM / FISHERS	P=0.477	P=0.227	P=0.607N	P=0.398
MAX-ISO-POLY-3	P=0.505	P=0.192	P=0.487N	P=0.313
HISTCONT SAME RTE	P=0.607	P=0.244	P=1.000	P=0.407
HISTCONT ALL RTEs	P=0.591	P=0.232	P=1.000	P=0.393

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Zymbal's Gland</b>				
<b>Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.14	0/45.08	0/43.50	0/44.02
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/31 (0%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/300 (0%)			
HC TUMORS ALL ROUTES	0/1300 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Zymbal's Gland Carcinoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.14	2/45.24	0/43.50	0/44.02
POLY-3 PERCENT (g)	0%	4.4%	0%	0%
TERMINAL (d)	0/31 (0%)	1/31 (3%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	---	688	---	---
HC TUMORS SAME ROUTE	3/300 (1%)			
HC TUMORS ALL ROUTES	7/1300 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.392N	P=0.248	(e)	(e)
POLY 1.5	P=0.396N	P=0.244	(e)	(e)
POLY 6	P=0.390N	P=0.250	(e)	(e)
COCH-ARM / FISHERS	P=0.403N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.261N	P=0.086	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTEs	(h)	(h)	(e)	(e)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>Zymbal's Gland</b>				
<b>Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.14	2/45.24	0/43.50	0/44.02
POLY-3 PERCENT (g)	0%	4.4%	0%	0%
TERMINAL (d)	0/31 (0%)	1/31 (3%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	---	688	---	---
HC TUMORS SAME ROUTE	3/300 (1%)			
HC TUMORS ALL ROUTES	7/1300 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.392N	P=0.248	(e)	(e)
POLY 1.5	P=0.396N	P=0.244	(e)	(e)
POLY 6	P=0.390N	P=0.250	(e)	(e)
COCH-ARM / FISHERS	P=0.403N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.261N	P=0.086	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTEs	(h)	(h)	(e)	(e)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>All Organs</b>				
<b>Histiocytic Sarcoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/43.14	0/45.08	0/43.50	1/44.50
POLY-3 PERCENT (g)	0%	0%	0%	2.3%
TERMINAL (d)	0/31 (0%)	0/31 (0%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	586
HC TUMORS SAME ROUTE	4/300 (1%)			
HC TUMORS ALL ROUTES	11/1300 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.200	(e)	(e)	P=0.506
POLY 1.5	P=0.200	(e)	(e)	P=0.504
POLY 6	P=0.202	(e)	(e)	P=0.509
COCH-ARM / FISHERS	P=0.198	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.134	(e)	(e)	P=0.166
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>All Organs</b>				
<b>Leukemia: Lymphocytic, Monocytic, Mononuclear, or Undifferentiated</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	15/50 (30%)	10/50 (20%)	15/50 (30%)	11/50 (22%)
POLY-3 RATE (b)	15/44.88	10/45.83	15/45.04	11/45.57
POLY-3 PERCENT (g)	33.4%	21.8%	33.3%	24.1%
TERMINAL (d)	9/31 (29%)	6/31 (19%)	9/30 (30%)	7/34 (21%)
FIRST INCIDENCE	361	646	553	449
HC TUMORS SAME ROUTE	97/300 (32%)			
HC TUMORS ALL ROUTES	273/1300 (21%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.309N	P=0.156N	P=0.584N	P=0.227N
POLY 1.5	P=0.316N	P=0.164N	P=0.586	P=0.236N
POLY 6	P=0.300N	P=0.153N	P=0.576N	P=0.219N
COCH-ARM / FISHERS	P=0.322N	P=0.178N	P=0.586N	P=0.247N
MAX-ISO-POLY-3	P=0.264N	P=0.108N	P=0.494N	P=0.165N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>All Organs</b>				
<b>Mesothelioma: Benign, Malignant, NOS</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.14	0/45.08	0/43.50	0/44.02
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/31 (0%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	1/300 (0%)			
HC TUMORS ALL ROUTES	5/1300 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTEs	(e)	(e)	(e)	(e)



TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>All Organs</b>				
<b>Mesothelioma: Malignant</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/43.14	0/45.08	0/43.50	0/44.02
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/31 (0%)	0/31 (0%)	0/30 (0%)	0/34 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/300 (0%)			
HC TUMORS ALL ROUTES	4/1300 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	(e)	(e)	(e)	(e)
POLY 1.5	(e)	(e)	(e)	(e)
POLY 6	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)
HISTCONT SAME RTE	(e)	(e)	(e)	(e)
HISTCONT ALL RTES	(e)	(e)	(e)	(e)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

Time Report Requested: 11:20:13

First Dose M/F: 08/25/03 / 08/25/03

Lab: BNW

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>All Organs</b>				
<b>Benign Tumors</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	43/50 (86%)	45/50 (90%)	46/50 (92%)	40/50 (80%)
POLY-3 RATE (b)	43/48.29	45/49.09	46/48.74	40/46.96
POLY-3 PERCENT (g)	89.1%	91.7%	94.4%	85.2%
TERMINAL (d)	28/31 (90%)	29/31 (94%)	28/30 (93%)	29/34 (85%)
FIRST INCIDENCE	486	574	481	592
HC TUMORS SAME ROUTE	258/300 (86%)			
HC TUMORS ALL ROUTES	1133/1300 (87%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.283N	P=0.461	P=0.270	P=0.392N
POLY 1.5	P=0.233N	P=0.439	P=0.254	P=0.346N
POLY 6	P=0.332N	P=0.468	P=0.302	P=0.443N
COCH-ARM / FISHERS	P=0.177N	P=0.380	P=0.262	P=0.298N
MAX-ISO-POLY-3	P=0.214N	P=0.324	P=0.160	P=0.278N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

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Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>All Organs</b>				
<b>Malignant Tumors</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	24/50 (48%)	18/50 (36%)	22/50 (44%)	16/50 (32%)
POLY-3 RATE (b)	24/45.56	18/47.49	22/45.53	16/47.71
POLY-3 PERCENT (g)	52.7%	37.9%	48.3%	33.5%
TERMINAL (d)	15/31 (48%)	9/31 (29%)	12/30 (40%)	8/34 (24%)
FIRST INCIDENCE	361	578	553	429
HC TUMORS SAME ROUTE	148/300 (49%)			
HC TUMORS ALL ROUTES	467/1300 (36%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.072N	P=0.107N	P=0.417N	P=0.045N*
POLY 1.5	P=0.083N	P=0.124N	P=0.423N	P=0.055N
POLY 6	P=0.063N	P=0.092N	P=0.409N	P=0.037N*
COCH-ARM / FISHERS	P=0.103N	P=0.156N	P=0.421N	P=0.076N
MAX-ISO-POLY-3	P=0.049N*	P=0.077N	P=0.336N	P=0.031N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

TDMS No. 99017 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS

Diethylamine

CAS Number: 109-89-7

Date Report Requested: 01/13/2010

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(F 344/N)  
TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>All Organs</b>				
<b>Malignant and Benign Tumors</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	48/50 (96%)	48/50 (96%)	48/50 (96%)	46/50 (92%)
POLY-3 RATE (b)	48/50.00	48/50.00	48/49.08	46/49.48
POLY-3 PERCENT (g)	96%	96%	97.8%	93%
TERMINAL (d)	29/31 (94%)	29/31 (94%)	29/30 (97%)	31/34 (91%)
FIRST INCIDENCE	361	574	481	429
HC TUMORS SAME ROUTE	284/300 (95%)			
HC TUMORS ALL ROUTES	1223/1300 (94%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.303N	P=0.693	P=0.524	P=0.411N
POLY 1.5	P=0.266N	P=0.693	P=0.568	P=0.378N
POLY 6	P=0.350N	P=0.693	P=0.508	P=0.451N
COCH-ARM / FISHERS	P=0.221N	P=0.691N	P=0.691N	P=0.339N
MAX-ISO-POLY-3	P=0.298N	P=1.000	P=0.303	P=0.252N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)

**LEGEND**

- (a) Number of tumor-bearing animals/number of animals examined at site.
- (b) Number of tumor-bearing animals/Poly-3 number
- (d) Observed incidence at terminal kill.
- (e) Value of Statistic cannot be computed.
- (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group.
- (g) Poly-3 adjusted lifetime tumor incidence.
- (h) Value of Historical Controls statistic is only calculated when Poly-3 trend is positive and when there is more than one tumor in the treatment groups.
- (I) Interim sacrifice
- (T) Terminal sacrifice
- # Tumor rates based on numbers of animals necropsied.
- \* To the right of any statistical result, indicates significance at ( $P \leq 0.05$ ).
- \*\* To the right of any statistical result, indicates significance at ( $P \leq 0.01$ ).
- N Indicates a negative trend for all tests  
The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

\*\*\* END OF REPORT \*\*\*